CHAPTER 6

FUTURE DIRECTIONS IN THE NORTH FORK FORKED DEER RIVER WATERSHED

6.1. BACKGROUND.

The Watershed Water Quality Management Plan serves as a comprehensive inventory of resources and stressors in the watershed, a recommendation for control measures, and a guide for planning activities in the next five-year watershed cycle and beyond. Water quality improvement will be a result of implementing both regulatory and nonregulatory programs.

In addition to the NPDES program, some state and federal regulations, such as the TMDL and ARAP programs, address point and nonpoint issues. Construction and MS4 stormwater rules (implemented under the NPDES program) are transitioning from Phase 1 to Phase 2. More information on stormwatrer rules may be found at: http://www.state.tn.us/environment/wpc/stormh2o/MS4.htm.

This Chapter addresses point and nonpoint source approaches to water quality problems in the North Fork Forked Deer River Watershed as well as specific NPDES permittee information.

6.2. COMMENTS FROM PUBLIC MEETINGS. Watershed meetings are open to the public, and most meetings were represented by citizens who live in the watershed, NPDES permitees, business people, farmers, and local river conservation interests. Locations for meetings were frequently chosen after consulting with people who live and work in the watershed. Everyone with an interest in clean water is encouraged to be a part of the public meeting process. The times and locations of watershed meetings are posted at: http://www.state.tn.us/environment/wpc/public.htm.

6.2.A. Year 1 Public Meeting. The first North Fork Forked Deer River Watershed public meeting was held April 15, 1997 in Humboldt. The goals of the meeting were to 1)present, and review the objectives of, the Watershed Approach, 2)introduce local, state, and federal agency and nongovernment organization partners, 3)review water quality monitoring strategies, and 4)solicit input from the public.

Major Concerns/Comments

- Lack of watershed associations in West Tennessee
- Need better coordination between all agencies doing sampling
- Need increased limits if wasteload allocations support it

6.2.B. Year 5 Public Meeting. The third scheduled North Fork Forked Deer River Watershed public meeting was held October 6, 2003 at the Humboldt Municipal Center (the meeting was for the Forked Deer and North Fork Forked Deer River Watersheds). The meeting featured five educational components:

- Overview of draft Watershed Water Quality Management Plan slide show
- Benthic macroinvertebrate samples and interpretation
- SmartBoard™ with interactive GIS maps
- “How We Monitor Streams” self-guided slide show
- “Why We Do Biological Sampling” self-guided slide show

In addition, citizens had the opportunity to make formal comments on the draft Watershed Water Quality Management Plan and to rate the effectiveness of the meeting.

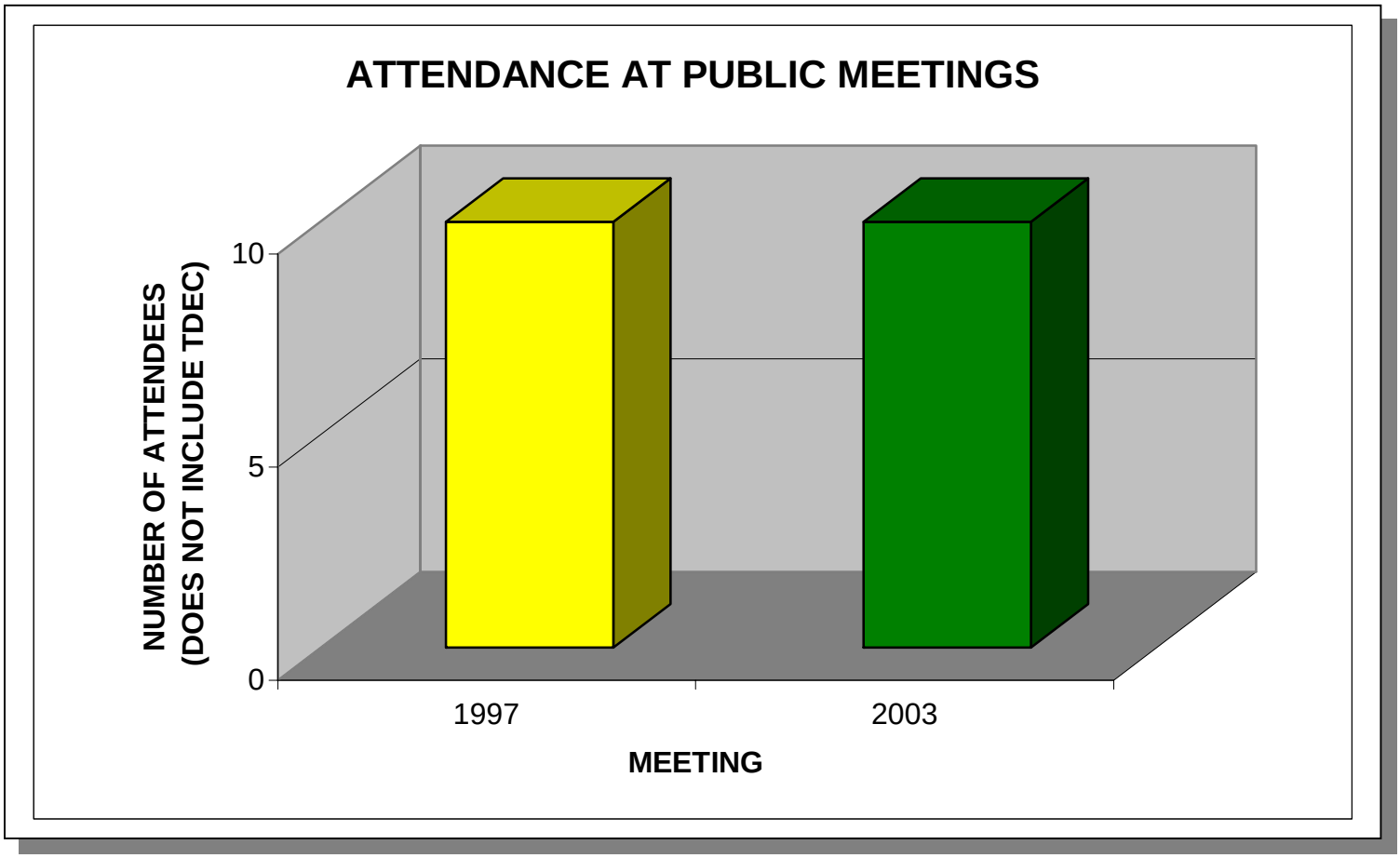

Figure 6-1. Attendance at Public Meetings in the North Fork Forked Deer River Watershed. *Watershed meeting numbers represent North Fork Forked Deer River and Forked Deer River Watersheds joint meetings.*

Figure 6-2. The SmartBoard™ is an effective interactive tool to teach citizens about the power of GIS.

6.3. APPROACHES USED.

6.3.A. Point Sources. Point source contributions to stream impairment are primarily addressed by NPDES and ARAP permit requirements and compliance with the terms of the permits. Notices of NPDES and ARAP draft permits available for public comment can be viewed at http://www.state.tn.us/environment/wpc/wpcppo/. Discharge monitoring data submitted by NPDES-permitted facilities may be viewed at http://www.epa.gov/enviro/html/pcs/pcs_query_java.html.

The purpose of the TMDL program is to identify remaining sources of pollution and allocate pollution control needs in places where water quality goals are still not being achieved. TMDL studies are tools that allow for a better understanding of load reductions necessary for impaired streams to return to compliance with water quality standards. More information about Tennessee's TMDL program may be found at:
http://www.state.tn.us/environment/wpc/tmdl.php

Approved TMDL:

North Fork Forked Deer River and Turkey Creek TMDL. TMDL for fecal coliform in the North Fork Forked Deer River Watershed approved May 10, 2002: http://www.state.tn.us/environment/wpc/nffdrfecal02.pdf

TMDLs are prioritized for development based on many factors.

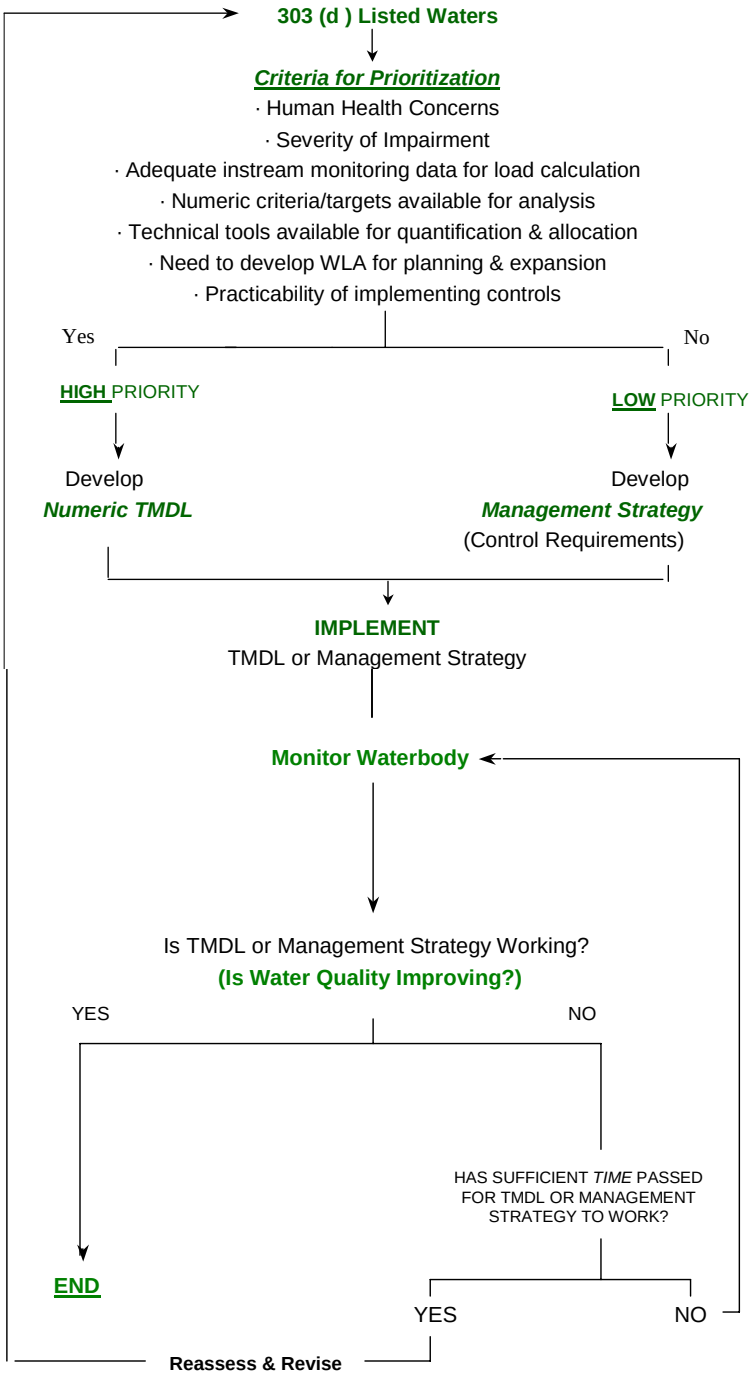

Figure 6-3. Prioritization scheme for TMDL Development.

6.3.B. Nonpoint Sources

Common nonpoint sources of pollution include urban runoff, riparian vegetation removal, and inappropriate land development, agricultural, and road construction practices. Since nonpoint pollution exists essentially everywhere rain falls and drains to a stream, existing point source regulations can have only a limited effect, so other measures are necessary.

There are several state and federal regulations that address some of the contaminants impacting waters in the North Fork Forked Deer River Watershed. Most of these are limited to only point sources: a pipe or ditch. Often, controls of point sources are not sufficient to protect waters, so other measures are necessary. Some measures include voluntary efforts by landowners and volunteer groups, while others may involve new regulations. Many agencies, including the Tennessee Department of Agriculture and NRCS, offer financial assistance to landowners for corrective actions (like Best Management Practices) that may be sufficient for recovery of impacted streams. Many nonpoint problems will require an active civic involvement at the local level geared towards establishment of improved zoning guidelines, building codes, streamside buffer zones and greenways, and general landowner education.

The following text describes certain types of impairments, causes, suggested improvement measures, and control strategies. The suggested measures and streams are only examples and efforts should not be limited to only those streams and measures mentioned.

6.3.B.i. Sedimentation.

6.3.B.i.a. From Construction Sites. Construction activities have historically been considered “nonpoint sources.” In the late 1980’s, EPA designated them as being subject to NPDES regulation if more than 5 acres are disturbed. In the spring of 2003, that threshold became 1 acre. The general permit issued for such construction sites sets out conditions for maintenance of the sites to minimize pollution from stormwater runoff, including requirements for installation and inspection of erosion controls. Also, the general permit imposes more stringent inspection and self-monitoring requirements on sites in the watershed of streams that are already impaired due to sedimentation. Regardless of the size, no construction site is allowed to cause a condition of pollution.

Construction sites within a sediment-impaired watershed may also have higher priority for inspections by WPC personnel, and are likely to have enforcement actions for failure to control erosion. Examples of these streams are Lewis Creek and Dyer Creek in Madison County.

The same requirements apply to sites in the drainage of high quality waters. Griffin Creek is an example of a high quality stream in the Middle Fork of the Forked Deer River subwatershed.

6.3.B.i.b. From Channel and/or Bank Erosion. Due to the past channelization of the North and Middle Forks of the Forked Deer River and many of its tributaries, the channels are unstable. Several agencies are working to stabilize portions of stream banks. These

include NRCS, TDOT, the U.S. Army Corps of Engineers, and the West Tennessee River Basin Authority. Other methods or controls that might be necessary to address common problems are:

Voluntary activities

- Re-establishment of bank vegetation and riparian zones (examples: the upper reach of Pond Creek).
- Establish off-channel watering areas for cattle by moving watering troughs and feeders back from stream banks.
- Limit cattle access to streams and bank vegetation.
- Allow streams to reestablish a natural channel within its floodplain.

Additional strategies

- Increase efforts in the Master Logger program to recognize impaired streams and require more effective management practices.
- Better community planning for the impacts of development on small streams (examples: Lewis Creek, Moize Creek, and Dyer Creek).
- Restrictions requiring post-construction run-off rates to be no greater than pre-construction rates in order to avoid in-channel erosion (examples: Moize Creek and Lewis Creek).
- Additional restrictions on logging in streamside management zones.
- Prohibition on clearing of stream and ditch banks (examples: Pond Creek and Lewis Creek). *Note: Permits may be required for any work along streams.*
- Additional restriction to road and utilities crossings of streams.
- Requirement that levees have a set-back that leaves an adequate floodway along streams (examples: Pond Creek, Bethel Branch, Doakville Branch).
- Cease the maintenance efforts on channelized segments of streams where a natural, stable channel can be established.

6.3.B.i.c. From Agriculture and Silviculture. Even though there is an exemption in the Water Quality Control Act stating that normal agricultural and silvicultural practices which do not result in a point source discharge do not have to obtain a permit, efforts are being made to address impacts due to these practices.

The Master Logger Program has been in place for several years to train loggers how to plan their logging activities and to install Best Management Practices (BMPs) that lessen the impact of logging activities. Recently, laws and regulations were enacted which established the expected BMPs to be used and allows the Commissioners of the Departments of Environment and Conservation and of Agriculture to stop a logging operation that has failed to install these BMPs and so are impacting streams. Any timber harvest in the North and Middle Forks of the Forked Deer Rivers are small and isolated.

Since the Dust Bowl era, the agriculture community has strived to protect the soil from wind and soil erosion. Agencies such as the Natural resources Conservation Service (NRCS), the University of Tennessee Agricultural Extension Service, and the Tennessee Department of Agriculture have worked to identify better ways of farming, to educate farmers, and to install the methods that address the sources of some of the impacts due to agriculture. Cost sharing is available for many of these measures. Buck Creek has already

had several BMPs installed to address the sediment lost from fields in this watershed. Pond Creek, Bethel Branch, and Doakville Creek could all benefit from agricultural BMPs.

6.3.B.ii. Pathogen Contamination.

Possible sources of pathogens are inadequate or failing septic tank systems, overflows or breaks in public sewer collection systems, poorly disinfected discharges from sewage treatment plants, and fecal matter in streams and storm drains due to pets, livestock and wildlife. Permits issued by the Division of Water Pollution Control regulate discharges from point sources and require adequate control for these sources. Individual homes are required to have subsurface, on-site treatment (i.e., septic tank and field lines) if public sewers are not available. Septic tank and field lines are regulated by the Division of Ground Water Protection within TDEC and delegated county health departments. In Madison County, subsurface systems are regulated by the Jackson-Madison County Health Department. In addition to discharges to surface waters, businesses may employ either subsurface or surface disposal of wastewater (spray irrigation). The Division of Water Pollution Control regulates surface disposal.

Other measures that may be necessary to control pathogens are:

Voluntary activities

- Off-channel watering of livestock.
- Limiting livestock access to streams.
- Proper management of animal waste from feeding operations or stables.

Enforcement strategies

- Greater enforcement of regulations governing onsite wastewater treatment.
- Timely and appropriate enforcement of noncomplying sewage treatment plants and collection systems.
- Identification of Concentrated Animal Feeding Operations not currently permitted, and enforcement of current regulations.

Additional strategies

- Restrict development in areas where sewer is not available and treatment by subsurface disposal is not an option due to poor soils, floodplains, or high water tables.
- Discourage the creation of “duck holes” that attract waterfowl.
- Develop and enforce leash laws and controls on pet fecal material (example: Moize Creek).
- Greater efforts by sewer utilities to identify leaking lines or overflowing manholes (example: Lewis Creek).

6.3.B.iii. Excessive Nutrients and/or Dissolved Oxygen Depletion.

These two impacts are usually listed together because high nutrients often contribute to low dissolved oxygen within a stream. Since nutrients often have the same source as

pathogens, the measures previously listed can also address many of these problems. Elevated nutrient loadings are also often associated with urban runoff from impervious surfaces and from fertilized lawns and croplands.

Other sources of nutrients can be addressed by:

Voluntary activities

- Encourage no-till farming (example: Pond Creek).
- Encourage farmers to use the proper rate of fertilizer for the soil and crop.
- Educate homeowners and lawn care companies in the proper application of fertilizers.
- Encourage landowners, developers, and builders to leave stream buffer zones. Streamside vegetation can filter out many nutrients and other pollutants before they reach the stream. These riparian buffers are also vital along livestock pastures.
- Use grassed drainage ways that can remove fertilizer before it enters streams.
- Use native plants for landscaping since they don't require as much fertilizer and water.

Physical changes to streams can prevent them from providing enough oxygen to biodegrade the materials that are naturally present. A few additional actions can address this problem:

- Maintain shade over a stream. Cooler water can hold more oxygen and retard the growth of algae (Pond Creek suffers from canopy removal).
- Discourage impoundments. Ponds and lakes do not aerate water. *Note: Permits may be required for any work on a stream, including impoundments.*

6.3.B.iv. Toxins and Other Materials.

Many materials enter our streams due to apathy, or lack of civility or knowledge by the public. Litter in roadside ditches, garbage bags tossed over bridge railings, paint brushes washed off over storm drains, and oil drained into ditches are all examples of pollution in streams. Some can be addressed by:

Voluntary activities

- Providing public education.
- Painting warnings on storm drains that connect to a stream (examples: Moize and Dyer Creeks).
- Sponsoring community clean-up days (examples: Light Creek, Lewis Creek, and Bethel Creek).
- Landscaping of public areas.
- Encouraging public surveillance of their streams and reporting of dumping activities to their local authorities.

Needing regulation

- Prohibition of illicit discharges to storm drains.
- Litter laws and strong enforcement at the local level.

6.3.B.v. Habitat Alteration.

The alteration of the habitat within a stream can have severe consequences. Whether it is the removal of the vegetation providing a root system network for holding soil particles together, the release of sediment, which increases the bed load and covers benthic life and fish eggs, the removal of gravel bars, "cleaning out" creeks with heavy equipment, or the impounding of the water in ponds and lakes, many alterations impair the use of the stream for designated uses. Habitat alteration also includes the draining or filling of wetlands.

Measures that can help address this problem are:

Voluntary activities

- Sponsoring litter pickup days to remove litter that might enter streams.
- Organizing stream cleanups removing trash, limbs and debris before they cause blockage (example: Jones Creek).
- Avoiding use of heavy equipment to "clean out" streams (example: Pond Creek).
- Planting vegetation along streams to stabilize banks and provide habitat.
- Encouraging developers to avoid extensive culverts in streams.

Current regulations

- Restrict modification of streams by such means as culverting, lining, or impounding.
- Require mitigation for impacts to streams and wetlands when modifications are allowed.

Additional regulations

- Increased enforcement may be needed when violations of current regulations occur.
- Pass laws prohibiting the construction of levees within a set distance from a stream.

6.4. PERMIT REISSUANCE PLANNING

Under the *Tennessee Water Quality Control Act*, municipal, industrial and other dischargers of wastewater must obtain a permit from the Division. Approximately 1,700 permits have been issued in Tennessee under the federally delegated National Pollutant Discharge Elimination System (NPDES). These permits establish pollution control and monitoring requirements based on protection of designated uses through implementation of water quality standards and other applicable state and federal rules.

The following three sections provide specific information on municipal, industrial, and water treatment plant active permit holders in the North Fork Forked Deer River Watershed. Compliance information was obtained from EPA's Permit Compliance System (PCS). All data was queried for a five-year period between January 1, 2001 and December 31, 2006. PCS can be accessed publicly through EPA's Envirofacts website. This website provides access to several EPA databases to provide the public with information about environmental activities that may affect air, water, and land anywhere in the United States:

http://www.epa.gov/enviro/html/ef_overview.html

Stream Segment information, including designated uses and impairments, are described in detail in Chapter 3, *Water Quality Assessment of the North Fork Forked Deer River Watershed*.

6.4.A. Municipal Permits

TN0075876 Jackson Energy Authority - Middle Fork Sewage Treatment Plant

Discharger rating: Major
City: Jackson
County: Madison
EFO Name: Jackson
Issuance Date: 8/9/04
Expiration Date: 7/31/07
Receiving Stream(s): Middle Fork Forked Deer River Mile 29.1
HUC-12: 080102040105
Effluent Summary: Treated municipal wastewater from Outfall 001
Treatment system: Treatment consists of mechanically cleaned bar screens, mechanically cleaned filter screens, grit removal, cyclical aeration, chlorination, and post aeration. WAS to aerobic digester to liquid injection to land application sites.

Segment	TN08010204010_2000
Name	Middle Fork Forked Deer River
Size	8.5
Unit	Miles
First Year on 303(d) List	-
Designated Uses	Fish and Aquatic Life (Supporting), Recreation (Supporting), Livestock Watering and Wildlife (Supporting), Irrigation (Supporting)
Causes	N/A
Sources	N/A

Table 6-1. Stream Segment Information for Jackson Energy Authority - Middle Fork Sewage Treatment Plant

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	Summer	8	mg/L	DMax Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	4	mg/L	MAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	6	mg/L	WAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	200	lb/day	WAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	133	lb/day	MAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	16	mg/L	DMax Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	266	lb/day	MAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	400	lb/day	WAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	12	mg/L	WAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	8	mg/L	MAvg Conc	3/Week	Composite	Effluent
CBOD % Removal	All Year	40	Percent	DMin % Removal	Monthly	Calculated	% Removal
CBOD % Removal	All Year	85	Percent	MAvg % Removal	Monthly	Calculated	% Removal
CBOD5	All Year		mg/L	DMax Conc	3/Week	Composite	Intake
CBOD5	All Year		mg/L	MAvg Conc	3/Week	Composite	Intake
CBOD5	Summer	30	mg/L	DMax Conc	3/Week	Composite	Effluent

Tables 6-2a.

PARAMETER	SEASON	LIMIT	UNITS	SAMPLE DESIGNATOR	MONITORING FREQUENCY	SAMPLE TYPE	MONITORING LOCATION
CBOD5	Summer	15	mg/L	MAvg Conc	3/Week	Composite	Effluent
CBOD5	Summer	500	lb/day	MAvg Load	3/Week	Composite	Effluent
CBOD5	Summer	667	lb/day	WAvg Load	3/Week	Composite	Effluent
CBOD5	Summer	20	mg/L	WAvg Conc	3/Week	Composite	Effluent
CBOD5	Winter	45	mg/L	DMax Conc	3/Week	Composite	Effluent
CBOD5	Winter	22.5	mg/L	MAvg Conc	3/Week	Composite	Effluent
CBOD5	Winter	1134	lb/day	WAvg Load	3/Week	Composite	Effluent
CBOD5	Winter	34	mg/L	WAvg Conc	3/Week	Composite	Effluent
CBOD5	Winter	751	lb/day	MAvg Load	3/Week	Composite	Effluent
D.O.	All Year	6	mg/L	DMin Conc	Weekdays	Grab	Effluent
E. coli	All Year	126	#/100mL	MAvg Geo Mean	3/Week	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	3/Week	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	3/Week	Grab	Effluent
Flow	All Year		MGD	DMax Load	Daily	Composite	Influent (Raw Sewage)
Flow	All Year		MGD	MAvg Load	Daily	Composite	Effluent
Flow	All Year		MGD	MAvg Load	Daily	Composite	Influent (Raw Sewage)
Flow	All Year		MGD	DMax Load	Daily	Composite	Effluent
IC25 7day Ceriodaphnia Dubia	All Year	12	Percent	DMin Conc	Quarterly	Composite	Effluent
IC25 7day Fathead Minnows	All Year	12	Percent	DMin Conc	Quarterly	Composite	Effluent
Nitrogen Total (as N)	All Year		mg/L	DMax Conc	Quarterly	Composite	Effluent
Phosphorus, Total	All Year		mg/L	DMax Conc	Quarterly	Composite	Effluent
Settleable Solids	All Year	1	mL/L	DMax Conc	3/Week	Grab	Effluent
TRC	All Year	0.16	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year		mg/L	DMax Conc	3/Week	Composite	Intake
TSS	All Year	45	mg/L	DMax Conc	3/Week	Composite	Effluent
TSS	All Year		mg/L	MAvg Conc	3/Week	Composite	Intake
TSS	All Year	1001	lb/day	MAvg Load	3/Week	Composite	Effluent
TSS	All Year	1334	lb/day	WAvg Load	3/Week	Composite	Effluent
TSS	All Year	40	mg/L	WAvg Conc	3/Week	Composite	Effluent
TSS	All Year	30	mg/L	MAvg Conc	3/Week	Composite	Effluent
TSS % Removal	All Year	85	Percent	MAvg % Removal	Monthly	Calculated	% Removal
TSS % Removal	All Year	40	Percent	DMin % Removal	3/Week	Calculated	% Removal
pH	All Year	9	SU	DMax Conc	Weekdays	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Weekdays	Grab	Effluent

Table 6-2b.

Tables 6-2a-b. Permit Limits for Jackson Energy Authority - Middle Fork STP

Compliance History:
The following numbers of exceedences were noted in PCS:

- 3 Settleable Solids
- 1 Ammonia
- 1CBOD
- 2 Suspended Solids % Removal
- 3 TSS
- 47 Overflows
- 4 Bypasses

EFO Comments:
No Issues.

TN0024988 Alamo STP

Discharger rating: Minor
City: Alamo
County: Crockett
EFO Name: Jackson
Issuance Date: 5/31/02
Expiration Date: 5/31/07
Receiving Stream(s): Unnamed tributary to Buck Creek at mile 4.5 then to the Forked Deer at mile 118
HUC-12: 080102040203
Effluent Summary: Treated municipal wastewater from Outfall 001
Treatment system: WAS to aerobic digester to dry beds to land application

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	Summer	2.5	mg/L	DMax Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	6.7	lb/day	DMax Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	2	mg/L	MAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	1.1	mg/L	WAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	3.7	lb/day	MAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	4	mg/L	DMax Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	3	mg/L	MAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	6.7	lb/day	MAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	2	mg/L	WAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	10.1	lb/day	DMax Load	3/Week	Composite	Effluent
Bypass of Treatment (occurrences)	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Wet Weather
CBOD % Removal	All Year	40	Percent	DMin % Removal	3/Week	Calculated	% Removal
CBOD % Removal	All Year	85	Percent	MAvg % Removal	3/Week	Calculated	% Removal
CBOD5	All Year	20	mg/L	DMax Conc	3/Week	Composite	Effluent
CBOD5	All Year	10	mg/L	DMin Conc	3/Week	Composite	Effluent
CBOD5	All Year	51	lb/day	DMax Load	3/Week	Composite	Effluent
CBOD5	All Year		mg/L	DMax Conc	3/Week	Composite	Influent (Raw Sewage)
CBOD5	All Year	15	mg/L	MAvg Conc	3/Week	Composite	Effluent
CBOD5	All Year	34	lb/day	MAvg Load	3/Week	Composite	Effluent
CBOD5	All Year		mg/L	MAvg Conc	3/Week	Composite	Influent (Raw Sewage)
D.O.	All Year	6	mg/L	DMin Conc	Weekdays	Grab	Effluent
E. coli	All Year	126	#/100mL	MAvg Geo Mean	3/Week	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	3/Week	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	3/Week	Grab	Effluent
Flow	All Year		MGD	DMax Load	Daily	Continuous	Effluent
Flow	All Year		MGD	DMax Load	Daily	Continuous	Influent (Raw Sewage)
Flow	All Year		MGD	MAvg Load	Daily	Continuous	Effluent
Flow	All Year		MGD	MAvg Load	Daily	Continuous	Influent (Raw Sewage)
IC25 7day Ceriodaphnia Dubia	All Year	100	Percent	DMin Conc	Quarterly	Composite	Influent (Raw Sewage)

Table 6-3a.

PARAMETER	SEASON	LIMIT	UNITS	SAMPLE DESIGNATOR	MONITORING FREQUENCY	SAMPLE TYPE	MONITORING LOCATION
IC25 7day Ceriodaphnia Dubia	All Year	100	Percent	DMin Conc	Monthly	Composite	Effluent
IC25 7day Fathead Minnows	All Year	100	Percent	DMin Conc	Quarterly	Composite	Influent (Raw Sewage)
IC25 7day Fathead Minnows	All Year	100	Percent	DMin Conc	Monthly	Composite	Effluent
Overflow Use Occurences	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Wet Weather
Overflow Use Occurences	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Non Wet Weather
Settleable Solids	All Year	1	mL/L	DMax Conc	3/Week	Composite	Effluent
TRC	All Year	0.02	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year	45	mg/L	DMax Conc	3/Week	Composite	Effluent
TSS	All Year		mg/L	DMax Conc	3/Week	Composite	Influent (Raw Sewage)
TSS	All Year	135	lb/day	DMax Load	3/Week	Composite	Effluent
TSS	All Year	40	mg/L	MAvg Conc	3/Week	Composite	Effluent
TSS	All Year	101	lb/day	MAvg Load	3/Week	Composite	Effluent
TSS	All Year		mg/L	MAvg Conc	3/Week	Composite	Influent (Raw Sewage)
TSS	All Year	30	mg/L	WAvg Conc	3/Week	Composite	Effluent
TSS % Removal	All Year	40	Percent	DMin % Removal	3/Week	Calculated	% Removal
TSS % Removal	All Year	85	Percent	MAvg % Removal	3/Week	Calculated	% Removal
pH	All Year	9	SU	DMax Conc	Weekdays	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Weekdays	Grab	Effluent

Table 6-3b.

Tables 6-3a-b. Permit Limits for Alamo Sewage Treatment Plant.

Compliance History:
The following numbers of exceedences were noted in PCS:

- 3 Ammonia
- 3 CBOD
- 2 Chlorine
- 6 Overflows
- 5 Bypasses

EFO Comments:
No Issues.

TN0021563 Dyer STP

Discharger rating: Minor
City: Dyer
County: Gibson
EFO Name: Jackson
Issuance Date: 12/29/06
Expiration Date: 7/31/07
Receiving Stream(s): Sand Creek at mile 1.6
HUC-12: 080102040304
Effluent Summary: Treated municipal wastewater from Outfall 001
Treatment system: WAS to dry bed to landfill

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	Summer	2	mg/L	DMax Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	8.4	lb/day	DMax Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	1.5	mg/L	MAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	0.9	mg/L	WAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Summer	5.1	lb/day	MAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	4	mg/L	DMax Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	3	mg/L	MAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	9.6	lb/day	MAvg Load	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	1.7	mg/L	WAvg Conc	3/Week	Composite	Effluent
Ammonia as N (Total)	Winter	16.9	lb/day	DMax Load	3/Week	Composite	Effluent
Bypass of Treatment (occurrences)	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Wet Weather
CBOD % Removal	All Year	40	Percent	DMin % Removal	3/Week	Calculated	% Removal
CBOD % Removal	All Year	65	Percent	MAvg % Removal	3/Week	Calculated	% Removal
CBOD5	All Year		mg/L	DMax Conc	3/Week	Composite	Influent (Raw Sewage)
CBOD5	All Year		mg/L	MAvg Conc	3/Week	Composite	Influent (Raw Sewage)
CBOD5	Summer	10	mg/L	DMax Conc	3/Week	Composite	Effluent
CBOD5	Summer	7.5	mg/L	MAvg Conc	3/Week	Composite	Effluent
CBOD5	Summer	28	lb/day	MAvg Load	3/Week	Composite	Effluent
CBOD5	Summer	5	mg/L	DMin Conc	3/Week	Composite	Effluent
CBOD5	Summer	42	lb/day	DMax Load	3/Week	Composite	Effluent
CBOD5	Winter	15	mg/L	DMax Conc	3/Week	Composite	Effluent
CBOD5	Winter	56	lb/day	DMax Load	3/Week	Composite	Effluent
CBOD5	Winter	7.5	mg/L	DMin Conc	3/Week	Composite	Effluent
CBOD5	Winter	42	lb/day	MAvg Load	3/Week	Composite	Effluent
CBOD5	Winter	10	mg/L	MAvg Conc	3/Week	Composite	Effluent
D.O.	All Year	6	mg/L	DMin Conc	Weekdays	Grab	Effluent
E. coli	All Year	941	#/100mL	DMax Conc	3/Week	Grab	Effluent
E. coli	All Year	126	#/100mL	MAvg Geo Mean	3/Week	Grab	Effluent
Flow	All Year		MGD	DMax Load	Daily	Continuous	Effluent
Flow	All Year		MGD	MAvg Load	Daily	Continuous	Effluent
Overflow Use Occurences	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Wet Weather
Overflow Use Occurences	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Non Wet Weather
Settleable Solids	All Year	1	mL/L	DMax Conc	Weekdays	Composite	Effluent
TRC	All Year	0.02	mg/L	DMax Conc	Weekdays	Grab	Effluent

Table 6-4a.

PARAMETER	SEASON	LIMIT	UNITS	SAMPLE DESIGNATOR	MONITORING FREQUENCY	SAMPLE TYPE	MONITORING LOCATION
TSS	All Year	45	mg/L	DMax Conc	3/Week	Composite	Effluent
TSS	All Year		mg/L	DMax Conc	3/Week	Composite	Influent (Raw Sewage)
TSS	All Year	225	lb/day	DMax Load	3/Week	Composite	Effluent
TSS	All Year	40	mg/L	MAvg Conc	3/Week	Composite	Effluent
TSS	All Year	169	lb/day	MAvg Load	3/Week	Composite	Effluent
TSS	All Year		mg/L	MAvg Conc	3/Week	Composite	Influent (Raw Sewage)
TSS	All Year	30	mg/L	WAvg Conc	3/Week	Composite	Effluent
TSS % Removal	All Year	40	Percent	DMin % Removal	3/Week	Calculated	% Removal
TSS % Removal	All Year	65	Percent	MAvg % Removal	3/Week	Calculated	% Removal
pH	All Year	8.5	SU	DMax Conc	Weekdays	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Weekdays	Grab	Effluent

Table 6-4b.

Tables 6-4a-b. Permit Limits for Dyer STP.

Compliance History:
The following numbers of exceedences were noted in PCS:

- 27 Ammonia
- 30 CBOD
- 6 E. coli
- 4 Suspended Solids % Removal
- 6 Chlorine
- 2 TSS
- 5 Dissolved Oxygen
- 7 pH
- 2 COD
- 21 overflows
- 3 bypasses.

EFO Comments:
No Issues.

TN0023477 Dyersburg STP

Discharger rating: Major
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 12/30/02
Expiration Date: 12/30/07
Receiving Stream(s): North Fork Forked Deer River at mile 2.8
HUC-12: 080102040402
Effluent Summary: Treated municipal wastewater from Outfall 001
Treatment system: WAS to aerobic digester to land application sites

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ag (T)	All Year	0.001	mg/L	DMax Conc	Semi-annually	Composite	Effluent
Ammonia as N (Total)	Summer	3	mg/L	DMax Conc	2/Week	Composite	Effluent
Ammonia as N (Total)	Summer	181	lb/day	DMax Load	2/Week	Composite	Effluent
Ammonia as N (Total)	Summer	2.3	mg/L	MAvg Conc	2/Week	Composite	Effluent
Ammonia as N (Total)	Summer	1.5	mg/L	WAvg Conc	2/Week	Composite	Effluent
Ammonia as N (Total)	Summer	118	lb/day	MAvg Load	2/Week	Composite	Effluent
Ammonia as N (Total)	Winter	20	mg/L	DMax Conc	2/Week	Composite	Effluent
Ammonia as N (Total)	Winter	969	lb/day	MAvg Load	2/Week	Composite	Effluent
Ammonia as N (Total)	Winter	1261	lb/day	DMax Load	2/Week	Composite	Effluent
Ammonia as N (Total)	Winter	12.3	mg/L	WAvg Conc	2/Week	Composite	Effluent
Ammonia as N (Total)	Winter	16	mg/L	MAvg Conc	2/Week	Composite	Effluent
CBOD % Removal	All Year	40	Percent	DMin % Removal	Weekly	Calculated	% Removal
CBOD % Removal	All Year	85	Percent	MAvg % Removal	Weekly	Calculated	% Removal
CBOD5	Summer	20	mg/L	DMax Conc	2/Week	Composite	Effluent
CBOD5	Summer	15	mg/L	MAvg Conc	2/Week	Composite	Effluent
CBOD5	Summer	1182	lb/day	DMax Load	2/Week	Composite	Effluent
CBOD5	Summer	10	mg/L	DMin Conc	2/Week	Composite	Effluent
CBOD5	Summer	788	lb/day	MAvg Load	2/Week	Composite	Effluent
CBOD5	Winter	40	mg/L	DMax Conc	2/Week	Composite	Effluent
CBOD5	Winter	1970	lb/day	MAvg Load	2/Week	Composite	Effluent
CBOD5	Winter	35	mg/L	MAvg Conc	2/Week	Composite	Effluent
CBOD5	Winter	25	mg/L	DMin Conc	2/Week	Composite	Effluent
CBOD5	Winter	2758	lb/day	DMax Load	2/Week	Composite	Effluent
D.O.	All Year	6	mg/L	DMin Conc	Weekdays	Grab	Effluent
E. coli	All Year	126	#/100mL	MAvg Geo Mean	Weekdays	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	Weekdays	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	Weekdays	Grab	Effluent
IC25 7day Ceriodaphnia Dubia	All Year	15	Percent	DMin Conc	Quarterly	Composite	Effluent
IC25 7day Fathead Minnows	All Year	15	Percent	DMin Conc	Quarterly	Composite	Effluent
Nitrite + Nitrate Total (as N)	All Year		mg/L	MAvg Conc	2/Month	Composite	Effluent
Phosphorus, Total	All Year		mg/L	MAvg Conc	2/Month	Composite	Effluent
Settleable Solids	All Year	1	mL/L	DMax Conc	Weekly	Grab	Effluent
TKN - Total Kjeldahl Nitrogen	All Year		mg/L	MAvg Conc	2/Month	Composite	Effluent
TKN - Total Kjeldahl Nitrogen	All Year		lb/day	MAvg Load	2/Month	Composite	Effluent
TRC	All Year	0.14	mg/L	DMax Conc	Weekdays	Grab	Effluent

Table 6-5a.

PARAMETER	SEASON	LIMIT	UNITS	SAMPLE DESIGNATOR	MONITORING FREQUENCY	SAMPLE TYPE	MONITORING LOCATION
TSS	All Year	45	mg/L	DMax Conc	2/Week	Composite	Effluent
TSS	All Year	3153	lb/day	DMax Load	2/Week	Composite	Effluent
TSS	All Year	30	mg/L	WAvg Conc	2/Week	Composite	Effluent
TSS	All Year	2364	lb/day	MAvg Load	2/Week	Composite	Effluent
TSS	All Year	40	mg/L	MAvg Conc	2/Week	Composite	Effluent
TSS % Removal	All Year	40	Percent	DMin % Removal	2/Week	Calculated	% Removal
TSS % Removal	All Year	85	Percent	MAvg % Removal	2/Week	Calculated	% Removal
pH	All Year	9	SU	DMax Conc	Weekdays	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Weekdays	Grab	Effluent

Table 6-5b.

Tables 6-5a-b. Permit Limits for Dyersburg STP.

Compliance History:
None Noted

EFO Comments:
No Issues.

TN0056481 East Elementary School

Discharger rating: Minor
City: Jackson
County: Madison
EFO Name: Jackson
Issuance Date: 4/30/02
Expiration Date: 4/30/07
Receiving Stream(s): Unnamed tributary at mile 1.7 to Middle Fork Forked Deer River at mile 35.1
HUC-12: 080102040104
Effluent Summary: Treated domestic wastewater from Outfall 001
Treatment system: Extended aeration; sludge to hauler as needed to Jackson WWTP

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	All Year	10	mg/L	DMax Conc	Monthly	Grab	Effluent
Ammonia as N (Total)	All Year	5	mg/L	MAvg Conc	Monthly	Grab	Effluent
CBOD5	All Year	30	mg/L	DMax Conc	Monthly	Grab	Effluent
CBOD5	All Year	20	mg/L	MAvg Conc	Monthly	Grab	Effluent
D.O.	All Year	6	mg/L	DMin Conc	Weekdays	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	Monthly	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	Monthly	Grab	Effluent
Settleable Solids	All Year	1	mL/L	DMax Conc	2/Week	Grab	Effluent
TRC	All Year	0.5	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year	45	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year	30	mg/L	MAvg Conc	Monthly	Grab	Effluent
pH	All Year	8.5	SU	DMax Conc	2/Week	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	2/Week	Grab	Effluent

Table 6-6. Permit Limits for East Elementary School.

EFO Comments:

New Superintendent may help resolve some of the school's wastewater issues.

TN0058955 Friendship Sewage Treatment Plant

Discharger rating: Major
City: Friendship
County: Crockett
EFO Name: Jackson
Issuance Date: 8/30/02
Expiration Date: 8/30/07
Receiving Stream(s): Unnamed tributary at mile 0.3 to Miller Creek at mile 3.9
HUC-12: 080102040401
Effluent Summary: Treated domestic wastewater from Outfall 001
Treatment system: WAS to aerobic digester to dry beds to landfill

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	Summer	1.8	mg/L	DMax Conc	Weekly	Composite	Effluent
Ammonia as N (Total)	Summer	1	lb/day	DMax Load	Weekly	Composite	Effluent
Ammonia as N (Total)	Summer	1.35	mg/L	MAvg Conc	Weekly	Composite	Effluent
Ammonia as N (Total)	Summer	0.9	mg/L	WAvg Conc	Weekly	Composite	Effluent
Ammonia as N (Total)	Summer	0.68	lb/day	MAvg Load	Weekly	Composite	Effluent
Ammonia as N (Total)	Winter	3.4	mg/L	DMax Conc	Weekly	Composite	Effluent
Ammonia as N (Total)	Winter	2.55	mg/L	MAvg Conc	Weekly	Composite	Effluent
Ammonia as N (Total)	Winter	1.28	lb/day	MAvg Load	Weekly	Composite	Effluent
Ammonia as N (Total)	Winter	1.7	mg/L	WAvg Conc	Weekly	Composite	Effluent
Ammonia as N (Total)	Winter	1.9	lb/day	DMax Load	Weekly	Composite	Effluent
Bypass of Treatment (occurrences)	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Wet Weather
CBOD % Removal	All Year	40	Percent	DMin % Removal	Weekly	Calculated	% Removal
CBOD % Removal	All Year	85	Percent	MAvg % Removal	Weekly	Calculated	% Removal
CBOD5	All Year	10	mg/L	DMax Conc	Weekly	Composite	Effluent
CBOD5	All Year	5	mg/L	DMin Conc	Weekly	Composite	Effluent
CBOD5	All Year	5.6	lb/day	DMax Load	Weekly	Composite	Effluent
CBOD5	All Year		mg/L	DMax Conc	Weekly	Composite	Influent (Raw Sewage)
CBOD5	All Year	7.5	mg/L	MAvg Conc	Weekly	Composite	Effluent
CBOD5	All Year	3.75	lb/day	MAvg Load	Weekly	Composite	Effluent
CBOD5	All Year		mg/L	MAvg Conc	Weekly	Composite	Influent (Raw Sewage)
D.O.	All Year	5	mg/L	DMin Conc	Weekdays	Grab	Effluent
E. coli	All Year	126	#/100mL	MAvg Geo Mean	Weekly	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	Weekly	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	Weekly	Grab	Effluent
Flow	All Year		MGD	DMax Load	Daily	Continuous	Effluent
Flow	All Year		MGD	DMax Load	Daily	Continuous	Influent (Raw Sewage)
Flow	All Year		MGD	MAvg Load	Daily	Continuous	Effluent
Flow	All Year		MGD	MAvg Load	Daily	Continuous	Influent (Raw Sewage)
Overflow Use Occurences	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Wet Weather

Table 6-7a.

PARAMETER	SEASON	LIMIT	UNITS	SAMPLE DESIGNATOR	MONITORING FREQUENCY	SAMPLE TYPE	MONITORING LOCATION
Overflow Use Occurences	All Year		Occurences/Month	MAvg Load	Continuous	Visual	Non Wet Weather
Settleable Solids	All Year	1	mL/L	DMax Conc	Weekly	Composite	Effluent
TRC	All Year	0.02	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year	45	mg/L	DMax Conc	Weekly	Composite	Effluent
TSS	All Year		mg/L	DMax Conc	Weekly	Composite	Influent (Raw Sewage)
TSS	All Year	30	lb/day	DMax Load	Weekly	Composite	Effluent
TSS	All Year	40	mg/L	MAvg Conc	Weekly	Composite	Effluent
TSS	All Year	22.5	lb/day	MAvg Load	Weekly	Composite	Effluent
TSS	All Year		mg/L	MAvg Conc	Weekly	Composite	Influent (Raw Sewage)
TSS	All Year	30	mg/L	WAvg Conc	Weekly	Composite	Effluent
TSS % Removal	All Year	40	Percent	DMin % Removal	Weekly	Calculated	% Removal
TSS % Removal	All Year	85	Percent	MAvg % Removal	Weekly	Calculated	% Removal
pH	All Year	9	SU	DMax Conc	Weekdays	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Weekdays	Grab	Effluent

Table 6-7b.

Table 6-7a-b. Permit Limits for Friendship Sewage Treatment Plant.

Compliance History:
The following numbers of exceedences were noted in PCS:

- 10 Ammonia
- 2 CBOD
- 3 Chlorine
- 3 Settleable Solids.

EFO Comments:
No Issues.

TN0026191 JEA- Medina Hydraulic Lagoon

Discharger rating: Minor
City: Medina
County: Gibson
EFO Name: Jackson
Issuance Date: 10/31/04
Expiration Date: 10/31/07
Receiving Stream(s): Turkey Creek at mile 5.3
HUC-12: 080102040105
Effluent Summary: Treated municipal wastewater from Outfall 001
Treatment system: Lagoon system

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
BOD5	All Year	45	mg/L	DMax Conc	Weekly	Grab	Effluent
BOD5	All Year	45	mg/L	MAvg Conc	Weekly	Grab	Effluent
CBOD % Removal	All Year	65	Percent	MAvg % Removal	Weekly	Calculated	Percent Removal
D.O.	All Year	1	mg/L	DMin Conc	Weekdays	Grab	Effluent
E. coli	All Year	126	#/100mL	MAvg Geo Mean	Weekly	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	Weekly	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	Weekly	Grab	Effluent
Settleable Solids	All Year	1	mL/L	DMax Conc	Weekdays	Grab	Effluent
TRC	All Year	2	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year	100	mg/L	DMax Conc	Weekly	Grab	Effluent
TSS	All Year	100	mg/L	MAvg Conc	Weekly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Weekdays	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Weekdays	Grab	Effluent

Table 6-8. Permit Limits for JEA- Medina Hydraulic Lagoon.

Compliance History:
None noted.

EFO Comments:
Jackson Energy Authority purchased this facility.

TN0021750 Trenton Lagoon

Discharger rating: Minor
City: Trenton
County: Gibson
EFO Name: Jackson
Issuance Date: 2/28/02
Expiration Date: 2/28/07
Receiving Stream(s): North Fork Forked Deer River Mile 35.9
HUC-12: 080102040302
Effluent Summary: Treated domestic wastewater from Outfall 001
Treatment system: Lagoon system

Segment	TN08010204020_1000
Name	North Fork Forked Deer
Size	10.9
Unit	Miles
First Year on 303(d) List	2004
Designated Uses	Recreation (Supporting), Irrigation (Supporting), Fish and Aquatic Life (Non-Supporting), Livestock Watering and Wildlife (Supporting)
Causes	Physical substrate habitat alterations, Sedimentation/Siltation
Sources	Channelization, Non-irrigated Crop Production

Table 6-9. Stream Segment Information for Trenton Lagoon.

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	Summer	10	mg/L	DMax Conc	Bi-monthly	Grab	Effluent
Ammonia as N (Total)	Summer	63	lb/day	DMax Load	Bi-monthly	Grab	Effluent
Ammonia as N (Total)	Summer	5	mg/L	WAvg Conc	Bi-monthly	Grab	Effluent
Ammonia as N (Total)	Summer	47	lb/day	DMax Load	Bi-monthly	Grab	Effluent
Ammonia as N (Total)	Summer	31	lb/day	MAvg Load	Bi-monthly	Grab	Effluent
Ammonia as N (Total)	Summer	7.5	mg/L	MAvg Conc	Bi-monthly	Grab	Effluent
Ammonia as N (Total)	Winter	20	mg/L	DMax Conc	2/Month	Grab	Effluent
Ammonia as N (Total)	Winter	63	lb/day	MAvg Load	2/Month	Grab	Effluent
Ammonia as N (Total)	Winter	15	mg/L	MAvg Conc	2/Month	Grab	Effluent
Ammonia as N (Total)	Winter	125	lb/day	DMax Load	2/Month	Grab	Effluent
Ammonia as N (Total)	Winter	94	lb/day	DMax Load	2/Month	Grab	Effluent
Ammonia as N (Total)	Winter	10	mg/L	WAvg Conc	2/Month	Grab	Effluent
CBOD % Removal	All Year	65	Percent	MAvg % Removal	Weekly	Calculated	% Removal
CBOD5	All Year	40	mg/L	DMax Conc	Weekly	Grab	Effluent
CBOD5	All Year	250	lb/day	DMax Load	Weekly	Grab	Effluent
CBOD5	All Year	219	lb/day	DMax Load	Weekly	Grab	Effluent
CBOD5	All Year	25	mg/L	DMin Conc	Weekly	Grab	Effluent
CBOD5	All Year	156	lb/day	MAvg Load	Weekly	Grab	Effluent
CBOD5	All Year	35	mg/L	MAvg Conc	Weekly	Grab	Effluent
D.O.	All Year	5	mg/L	DMin Conc	Weekdays	Grab	Effluent

Table 6-10a.

PARAMETER	SEASON	LIMIT	UNITS	SAMPLE DESIGNATOR	MONITORING FREQUENCY	SAMPLE TYPE	MONITORING LOCATION
E. coli	All Year	126	#/100mL	MAvg Geo Mean	Weekly	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	Weekly	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	Weekly	Grab	Effluent
Settleable Solids	All Year	1	mL/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	0.14	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year	120	mg/L	DMax Conc	Weekly	Grab	Effluent
TSS	All Year	751	lb/day	DMax Load	Weekly	Grab	Effluent
TSS	All Year	688	lb/day	DMax Load	Weekly	Grab	Effluent
TSS	All Year	110	mg/L	MAvg Conc	Weekly	Grab	Effluent
TSS	All Year	626	lb/day	MAvg Load	Weekly	Grab	Effluent
TSS	All Year	100	mg/L	WAvg Conc	Weekly	Grab	Effluent
pH	All Year	10	SU	DMax Conc	2/Week	Grab	Effluent
pH	All Year	6	SU	DMin Conc	2/Week	Grab	Effluent

Table 6-10b.

Tables 6-10a-b. Permit Limits for Trenton Lagoon.

Compliance History:

- 24 overflows

EFO Comments:

No Issues.

TN0078271 Trenton Waste Water Lagoon

Discharger rating: Minor
City: Trenton
County: Gibson
EFO Name: Jackson
Issuance Date: None Yet
Expiration Date: None Yet
Receiving Stream(s): North Fork Forked Deer River (at confluence of Cain Creek to the North Fork Forked Deer River)
HUC-12: 080102040302
Effluent Summary: Treated domestic wastewater from Outfall 001
Treatment system: Two cell, aerated lagoon

Segment	TN08010204020_1000
Name	North Fork Forked Deer
Size	10.9
Unit	Miles
First Year on 303(d) List	2004
Designated Uses	Recreation (Supporting), Irrigation (Supporting), Fish and Aquatic Life (Non-Supporting), Livestock Watering and Wildlife (Supporting)
Causes	Physical substrate habitat alterations, Sedimentation/Siltation
Sources	Channelization, Non-irrigated Crop Production

6-11. Stream Segment Information for Trenton Waste Water Lagoon.

Permit Limits:
None Yet

EFO Comments:
New facility to replace TN0021750.

TN0055247 Westover Elementary School

Discharger rating: Minor
City: Trenton
County: Gibson
EFO Name: Jackson
Issuance Date: 6/28/02
Expiration Date: 6/30/07
Receiving Stream(s): Unnamed ditch at mile 1.1 to Middle Fork Forked Deer River at mile 54.6
HUC-12: 080102040102
Effluent Summary: Treated domestic wastewater from Outfall 001
Treatment system: Lagoon system

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	All Year	10	mg/L	DMax Conc	Monthly	Grab	Effluent
Ammonia as N (Total)	All Year	5	mg/L	MAvg Conc	Monthly	Grab	Effluent
CBOD5	All Year	20	mg/L	DMax Conc	Monthly	Grab	Effluent
CBOD5	All Year	10	mg/L	MAvg Conc	Monthly	Grab	Effluent
D.O.	All Year	6	mg/L	DMin Conc	Weekdays	Grab	Effluent
Fecal Coliform	All Year	1000	#/100mL	DMax Conc	Monthly	Grab	Effluent
Fecal Coliform	All Year	200	#/100mL	MAvg Geo Mean	Monthly	Grab	Effluent
Settleable Solids	All Year	1	mL/L	DMax Conc	2/Week	Grab	Effluent
TRC	All Year	1	mg/L	DMax Conc	Weekdays	Grab	Effluent
TSS	All Year	45	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year	30	mg/L	MAvg Conc	Monthly	Grab	Effluent
pH	All Year	8.5	SU	DMax Conc	2/Week	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	2/Week	Grab	Effluent

Tables 6-11. Permit Limits for Westover Elementary School.

EFO Comments:

New Superintendent may help resolve some of the school's wastewater issues.

6.4.B. Industrial Permits

TN0074811 Ameristeel - West Tennessee Steel Mill Division

Discharger rating: Minor
City: Jackson
County: Madison
EFO Name: Jackson
Issuance Date: 5/30/03
Expiration Date: 12/31/07
Receiving Stream(s): Mile 1.5 of Dyer Creek to Middle Fork Forked Deer River at mile 31.5 (001), and mile 1.0 of an unnamed tributary to Middle Fork Forked Deer River at mile 32.5 (002)
HUC-12: 080102040104
Effluent Summary: Cooling water (Outfalls 001 and 002)
Treatment system: -

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Fe (T)	All Year	2	mg/L	DMax Conc	Monthly	Grab	Effluent
Fe (T)	All Year	1	mg/L	MAvg Conc	Monthly	Grab	Effluent
Flow	All Year		MGD	DMax Load	Monthly	Instantaneous	Effluent
Flow	All Year		MGD	MAvg Load	Monthly	Instantaneous	Effluent
IC25 7day Ceriodaphnia Dubia	All Year	100	Percent	DMin Conc	Semi-annually	Composite	Effluent
IC25 7day Fathead Minnows	All Year	100	Percent	DMin Conc	Semi-annually	Composite	Effluent
Oil and Grease (Freon EM)	All Year	15	mg/L	DMax Conc	Monthly	Grab	Effluent
Oil and Grease (Freon EM)	All Year	10	mg/L	MAvg Conc	Monthly	Grab	Effluent
TRC	All Year	0.019	mg/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	0.011	mg/L	MAvg Conc	Monthly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Monthly	Grab	Effluent
Temperature (°C)	All Year		Deg. C	DMax Conc	Monthly	Grab	Effluent
Temperature (°C)	All Year		Deg. C	MAvg Conc	Monthly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Monthly	Grab	Effluent

Tables 6-12. Permit Limits for Ameristeel - West Tennessee Steel Mill Division.

Compliance History:
The following numbers of exceedences were noted in PCS:

- 12 Iron
- 5 TSS
- 19 pH

EFO Comments:
Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills. Expanded operations for scrap recovery. It is the largest railcar dismantling facility east of the Mississippi.

TN0064017 Dr. Pepper Pepsi-Cola Bottling Co

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 8/31/04
Expiration Date: 9/29/07
Receiving Stream(s): Unnamed tributary at mile 0.6 to another unnamed tributary at mile 0.4 to Pond Creek at mile 1.2
HUC-12: 080102040403
Effluent Summary: Bottle rinse water through Outfall 001
Treatment system: No treatment of process wastewater. The facility uses city water to rinse new, unused beverage containers.

Segment	TN08010204003_1000
Name	Pond Creek
Size	24.7
Unit	Miles
First Year on 303(d) List	2004
Designated Uses	Recreation (Non-Supporting), Irrigation (Supporting), Fish and Aquatic Life (Non-Supporting), Livestock Watering and Wildlife (Supporting)
Causes	Escherichia coli, Sedimentation/Siltation, Physical substrate habitat alterations, Oxygen, Dissolved, Phosphate
Sources	Non-irrigated Crop Production, Channelization, Source Unknown

Table 6-13. Stream Segment Information for Dr. Pepper Pepsi-Cola Bottling Co.

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Flow	All Year		MGD	DMax Load	Weekly	Instantaneous	Effluent
Flow	All Year		MGD	MAvg Load	Weekly	Instantaneous	Effluent
TRC	All Year	0.019	mg/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	0.011	mg/L	MAvg Conc	Monthly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Quarterly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Weekly	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Weekly	Grab	Effluent

Table 6-14. Permit Limits for Dr. Pepper Pepsi-Cola Bottling Co.

Compliance History:
No numbers of exceedences noted in PCS.

EFO Comments:
Bottled and Canned Soft Drinks and Carbonated Waters. No Issues.

TN0077739 Excalibar Minerals, Inc.

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 5/10/04
Expiration Date: 4/30/07
Receiving Stream(s): Unnamed tributary of Lewis Creek
HUC-12: 080102040404
Effluent Summary: Industrial storm water runoff from Outfalls SW1, SW2 and SW3
Treatment system: Vegetative buffer zones, settling.

Segment	TN08010204023_1000
Name	Lewis Creek
Size	46.3
Unit	Miles
First Year on 303(d) List	1990
Designated Uses	Fish and Aquatic Life (Non-Supporting), Recreation (Non-Supporting), Irrigation (Supporting), Livestock Watering and Wildlife (Supporting)
Causes	Physical substrate habitat alterations, Sedimentation/Siltation, Escherichia coli
Sources	Channelization, Discharges from Municipal Separate Storm Sewer Systems (MS4), Non-irrigated Crop Production

Table 6-15. Stream Segment Information for Excalibar Minerals, Inc.

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Floating Solids Or Visible Foam-Visual	All Year		YES=1 NO=0	DMax Conc	Monthly	Visual	Effluent
Flow	All Year		MGD	DMax Load	Monthly	Estimate	Effluent
Flow	All Year		MGD	MAvg Load	Monthly	Estimate	Effluent
Oil and Grease (Freon EM)	All Year	15	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Monthly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Monthly	Grab	Effluent

Table 6-16. Permit Limits for Excalibar Minerals, Inc.

Compliance History:
No numbers of exceedences noted in PCS.

EFO Comments:
Crushing, grinding and processing Barite ($BaSO_4$) and Limestone ($CaCO_3$). No process wastewater. Storm water only. Manager is interested in some relief from monthly testing. I said that if he had a good history of meeting his permit limits, it may be worthwhile to ask for quarterly analytical limits and monthly visual observations

TN0000221 Excel Polymers

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 5/31/02
Expiration Date: 4/30/07
Receiving Stream(s): Unnamed tributary to the North Fork Forked Deer River at mile 6.2
HUC-12: 080102040402
Effluent Summary: Industrial storm water runoff through Outfall SW3
Treatment system: Storm water pollution prevention plan measures

Segment	TN08010204004_1000
Name	North Fork Forked Deer River
Size	20.6
Unit	Miles
First Year on 303(d) List	-
Designated Uses	Fish and Aquatic Life (Supporting), Recreation (Supporting), Irrigation (Supporting), Livestock Watering and Wildlife (Supporting)
Causes	N/A
Sources	N/A

Table 6-17. Stream Segment Information for Excel Polymers.

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	All Year		mg/L	DMax Conc	Quarterly	Grab	Effluent
BOD5	All Year		mg/L	DMax Conc	Quarterly	Grab	Effluent
COD	All Year		mg/L	DMax Conc	Quarterly	Grab	Effluent
Flow	All Year		MGD	DMax Load	Quarterly	Instantaneous	Effluent
Oil and Grease (Freon EM)	All Year		mg/L	DMax Conc	Quarterly	Grab	Effluent
TSS	All Year		mg/L	DMax Conc	Quarterly	Grab	Effluent
Zn (T)	All Year		mg/L	DMax Conc	Quarterly	Grab	Effluent
pH	All Year		SU	DMax Conc	Quarterly	Grab	Effluent

Table 6-18. Permit Limits for Excel Polymers.

Compliance History:
No numbers of exceedences noted in PCS.

Comments:
Fabricated Rubber Products, NEC. No Issues.

TN0000027 Heckethorn Manufacturing Company, Inc.

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 3/28/02
Expiration Date: 3/28/07
Receiving Stream(s): Mile 0.3 of an unnamed tributary to mile 1.3 of the Old Channel North Fork Forked Deer to mile 2.1 of the North Fork Forked Deer River
HUC-12: 080102040402
Effluent Summary: Non-contact cooling water from Outfall 001
Treatment system: Non-contact cooling water purchased from the City of Dyersburg

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Oil and Grease (Freon EM)	All Year	15	mg/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	0.019	mg/L	DMax Conc	Monthly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Monthly	Grab	Effluent

Table 6-19. Permit Limits for Heckethorn Manufacturing Company, Inc.

Compliance History:
No numbers of exceedences noted in PCS.

Comments:
Metal forming business producing muffler clamps and hanger rods for the auto industry.

TN0068497 Maytag, Jackson Dishwashing Products

Discharger rating: Minor
City: Jackson
County: Madison
EFO Name: Jackson
Issuance Date: 3/31/06
Expiration Date: 3/30/07
Receiving Stream(s): Unnamed tributary at mile 4.2 to Dyer Creek at mile 3.0 to the Middle Fork Forked Deer River at mile 31.2
HUC-12: 080102040104
Effluent Summary: Non-contact cooling water from Outfall 001
Treatment system: -

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Ammonia as N (Total)	All Year	2	mg/L	DMax Conc	Monthly	Grab	Effluent
BOD5	All Year	12	mg/L	DMax Conc	Monthly	Grab	Effluent
D.O.	All Year	6	mg/L	DMin Conc	Monthly	Grab	Effluent
Flow	All Year		MGD	MAvg Conc	Monthly	Instantaneous	Effluent
Flow	All Year		MGD	DMax Conc	Monthly	Instantaneous	Effluent
Oil and Grease (Hexane Extraction)	All Year	15	mg/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	1	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year		mg/L	DMax Conc			Effluent
Temperature (°C)	All Year		°C	MAvg Geo Mean	See Permit	Grab	Effluent
Zn (T)	All Year	0.221	mg/L	DMax Conc	Quarterly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Monthly	Grab	Effluent

Table 6-20. Permit Limits for Maytag, Jackson Dishwashing Products

Compliance History:
No numbers of exceedences noted in PCS.

EFO Comments:
Manufacturing household appliances. Industry was recently sold but no changes in production have occurred.

TN0072966 Trunkline Gas Company- Dyersburg Compressor Station

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 12/31/02
Expiration Date: 12/31/07
Receiving Stream(s): Unnamed tributary at mile 1.4 to Nash Creek at mile 3.0
HUC-12: 080102040401
Effluent Summary: Non-contact cooling water from Outfall 001
Treatment system: -

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Oil and Grease (Freon EM)	All Year	15	mg/L	DMax Conc	Quarterly	Grab	Effluent
Polychlorinated Biphenyls (PCBs)	All Year	2E-04	mg/L	DMax Conc	Quarterly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Quarterly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Quarterly	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Quarterly	Grab	Effluent

Table 6-21. Permit Limits for Trunkline Gas Company- Dyersburg Compressor Station.

Compliance History:
No numbers of exceedences noted in PCS.

EFO Comments:
Natural Gas Transmission. No Issues.

TN0000272 Wisconsin Box Company

Discharger rating: Minor
City: Dyersburg
County: Gibson
EFO Name: Jackson
Issuance Date: 9/30/02
Expiration Date: 9/30/07
Receiving Stream(s): Wet weather conveyance to Sand Creek at mile 1.8
HUC-12: 080102040304
Effluent Summary: Note! Only boiler blow down and well water overflow are still discharged from Outfall 001. Their cooling water and seasonal log sprinkler water have been eliminated.
Treatment system: None

Segment	TN08010204021_0100
Name	Dry Creek
Size	5.73
Unit	Miles
First Year on 303(d) List	2004
Designated Uses	Fish and Aquatic Life (Non-Supporting), Recreation (Not Assessed), Irrigation (Supporting), Livestock Watering and Wildlife (Supporting)
Causes	Physical substrate habitat alterations
Sources	Channelization

Table 6-22. Stream Segment Information for Wisconsin Box Company.

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
BOD5	All Year	25	mg/L	DMax Conc	Monthly	Grab	Effluent
Debris Floating (Severity)	All Year		PASS=0 FAIL=1	DMax Conc	Monthly	Grab	Effluent
Fe (T)	All Year	1.9	mg/L	DMax Conc	Monthly	Grab	Effluent
Flow	All Year		MGD	DMax Load	Monthly	Instantaneous	Effluent
Flow	All Year		MGD	MAvg Load	Monthly	Instantaneous	Effluent
IC25 7day Ceriodaphnia Dubia	All Year	100	Percent	DMin Conc	Annually	Composite	Effluent
Oil and Grease (Freon EM)	All Year	30	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Monthly	Grab	Effluent
Temperature (°C)	All Year	30.5	Deg. C	DMax Conc	Monthly	Grab	Effluent
Temperature Diff. Downstrm & Upstrm (°C)	All Year		Deg. C	DMax Conc	Monthly	Grab	Effluent
Temperature Rate of Change (°C/Hr)	All Year		Deg. C/Hour	DMax Load	Monthly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6	SU	DMin Conc	Monthly	Grab	Effluent

Table 6-23. Permit Limits for Wisconsin Box Company.

Compliance History:
No numbers of exceedences noted in PCS.

EFO Comments:
Wood Containers. No more Wet Storage and no more discharge, should be able to terminate permit this year.

6.4.B. Water Treatment Plant Permits

TN0060828 Dyersburg Suburban Consolidated U.D. Water Treatment Plant

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 9/29/04
Expiration Date: 9/29/09
Receiving Stream(s): Unnamed tributary at mile 1.0 to the North Fork Forked Deer River at mile 5.4
HUC-12: 080102040402
Effluent Summary: Filter backwash and/or sedimentation basin washdown from Outfall 001
Treatment system: Lime, chlorine, aqua mag, and fluorosilicic acid

Segment	TN08010204001_1000
Name	North Fork Forked Deer River
Size	8.34
Unit	Miles
First Year on 303(d) List	1990
Designated Uses	Irrigation (Supporting), Livestock Watering and Wildlife (Supporting), Recreation (Non-Supporting), Fish and Aquatic Life (Non-Supporting)
Causes	Escherichia coli, Phosphate, Sedimentation/Siltation
Sources	Non-irrigated Crop Production, Channelization, Discharges from Municipal Separate Storm Sewer Systems (MS4), Source Unknown

Table 6-24. Stream Segment Information for Dyersburg Suburban Consolidated U.D. WTP.

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Fe (T)	All Year	2	mg/L	DMax Conc	Monthly	Grab	Effluent
Flow	All Year		MGD	DMax Load	Monthly	Instantaneous	Effluent
Settleable Solids	All Year	0.5	mL/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	0.019	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Monthly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Monthly	Grab	Effluent

Table 6-25. Permit Limits for Dyersburg Suburban Consolidated U.D. WTP.

Compliance History:
The following numbers of exceedences were noted in PCS:

- 4 Iron
- 3 Chlorine

EFO Comments:
Iron removal WTP

TN0056243 Northwest Dyersburg Utility District Water Treatment Plant

Discharger rating: Minor
City: Dyersburg
County: Dyer
EFO Name: Jackson
Issuance Date: 9/29/04
Expiration Date: 9/27/09
Receiving Stream(s): Unnamed tributary of Lewis Creek
HUC-12: 080102060404
Effluent Summary: Filter backwash and/or sedimentation basin washdown from Outfall 001
Treatment system: Lime, chlorine and hydroflourosylicic acid

Segment	TN08010204023_1000
Name	Lewis Creek
Size	46.3
Unit	Miles
First Year on 303(d) List	1990
Designated Uses	Fish and Aquatic Life (Non-Supporting), Recreation (Non-Supporting), Irrigation (Supporting), Livestock Watering and Wildlife (Supporting)
Causes	Physical substrate habitat alterations, Sedimentation/Siltation, Escherichia coli
Sources	Channelization, Discharges from Municipal Separate Storm Sewer Systems (MS4), Non-irrigated Crop Production

Table 6-26. Stream Segment Information for Northwest Dyersburg Utility District WTP

PARAMETER	*SEASON*	*LIMIT*	*UNITS*	*SAMPLE DESIGNATOR*	*MONITORING FREQUENCY*	*SAMPLE TYPE*	*MONITORING LOCATION*
Fe (T)	All Year	2	mg/L	DMax Conc	Monthly	Grab	Effluent
Flow	All Year		MGD	DMax Load	Monthly	Instantaneous	Effluent
Settleable Solids	All Year	0.5	mL/L	DMax Conc	Monthly	Grab	Effluent
TRC	All Year	0.019	mg/L	DMax Conc	Monthly	Grab	Effluent
TSS	All Year	40	mg/L	DMax Conc	Monthly	Grab	Effluent
pH	All Year	9	SU	DMax Conc	Monthly	Grab	Effluent
pH	All Year	6.5	SU	DMin Conc	Monthly	Grab	Effluent

Table 6-27. Permit Limits for Northwest Dyersburg Utility District WTP

Compliance History:
The following numbers of exceedences were noted in PCS:

- 1 Settleable Solids
- 1 Chlorine

EFO Comments:
Iron removal WTP